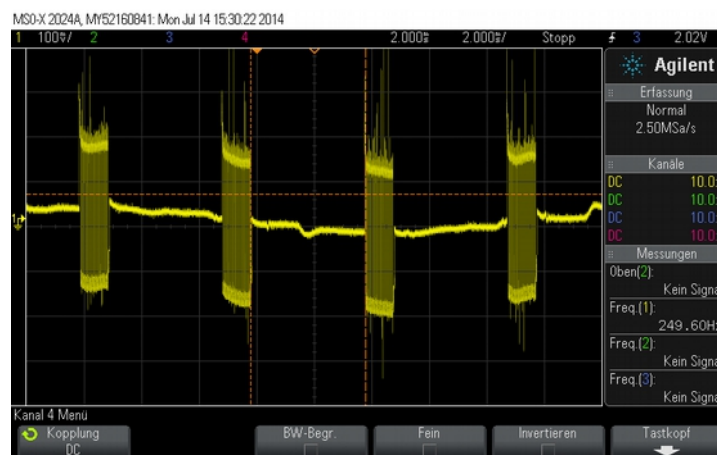


LED lamps may influence SPORTident AIR+

Some applications supported by SPORTident like MTB, MTB Enduro and MTBO partly take place in the dark. To light the course, powerful LED lamps are used. These lamps are mounted as head lamps or at the bike's handlebar.

It turned out that these LED lamps may influence the functionality of the SPORTident AIR+ system. This influence is based on electromagnetic radiation. The LED lamps are so called switching devices and electronic is used to modulate the brightness. Some LED lamps are not well protected against emission of these switching signals. In such cases lamp's battery cable acts as an antenna and transmits the switching signals into the environment. The picture below shows these interference signals.



This effect even increases if the antenna cable is wound around the handlebars or other parts of the bike frame, like in the pictures below.



The market of LED lamps is overcrowded with products of any size, performance and origins from known and unknown producers. To avoid any problem we recommend:

1. Using only labelled and fully qualified (**CE**) LED lamps
2. Testing out the full performance of SPORTident AIR+ under the condition of the working LED lamp before the race